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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,170	08/24/2007	Noriyuki Suzuki	187856/US-465122-00027	4734
30873 7590 05/26/2009 DORSEY & WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT 250 PARK AVENUE NEW YORK, NY 10177				
EXAMINER				
CHAO, MICHAEL W				
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2442				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/584,170

**Applicant(s)**

SUZUKI ET AL.

**Examiner**

Michael Chao

**Art Unit**

2442

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 13 May 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 17-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 17-21 is/are rejected.
- 7) ☒ Claim(s) 17-21 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/CDC)
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_
- Paper No(s)/Mail Date: \_\_\_\_\_

## **DETAILED ACTION**

### ***Claim Objections***

Claims 17-21 are objected to because of the following informalities:

Claim 20 has two 'third arrangement[s]', it is assumed they are not the same arrangement and are merely mislabeled.

Generally the claims contain corresponded, which is not corresponding.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 20, 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 20 contains the phrase "a third arrangement configured to transmit the material name and the property item to the server-side computing arrangement having at least one of the addresses corresponding to the material name and the property item inputted from the first arrangement". Specifically "having at least one of the address corresponded to the material name and the property item inputted from the first arrangement". Does not relate which elements are contemplated by the 'at least one of' clause.

Claim 21 contains the phrase "transmitting the extracted material property data to the user-side computing arrangement so as to be available to a numerical invisible to a user at the server-side computing arrangement". It is interpreted as "transmitting the extracted material property data, to the user-side computing arrangement so as to be available to a numerical analyzer and invisible to a user, from the server-side computing arrangement".

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 17, 20, 21, are rejected under 35 U.S.C. 103(a) as being unpatentable over Rassaian et al. (US 6,813,749), in view of Bergeron et al. (US 6,246,410).

With respect to claim 1, Rassaian teaches:

A system, comprising:  
a server-side computing arrangement configured to provide numerical analysis data to a user-side computing arrangement which is connected to a network to perform a numerical analysis regarding a working member and a forming member, the working and forming members being produced by using a predetermined material, wherein the user-side computing arrangement comprises:  
i. an first arrangement configured to input a material name and a property

item, ("depicts an example of a user interface that illustrates the type of parts and the package styles for the parts" Rassaian column 11 line 3)

- i. a fourth arrangement configured to store the material name and the property item corresponding to one or more types of (a) material property data from a mechanical property value, (b) a thermal physical property value, or (c) an electromagnetic property value as for a number of materials, ("parts and package style from a parts database 36" Rassaian column 11 line 1; also "thermal environment parameter" Rassaian column 11 line 35)
- ii. a ninth arrangement configured to perform a numerical analysis by using the material property data such that the user is unconcerned regarding substances of the material property data. ("The environmental load(s) may be applied to the finite element model of the component by finite element analysis" Rassaian column 12 line 16)

Rassaian does not teach:

- ii. a second arrangement configured to store addresses of the server-side computing arrangement corresponded to the material name and the property item, and
  - iii. a third arrangement configured to transmit the material name and the property item to the server-side computing arrangement having the address corresponded to the material name and the property item inputted from the first arrangement,
- wherein the server-side computing arrangement comprises:

- ii. a fifth arrangement configured to receive the material name and the property item transmitted from the third arrangement of the user-side computing arrangement,
  - iii. a sixth arrangement configured to extract the one or more types of (a) the material property data from the mechanical property value, (b) the thermal physical property value, or (c) the electromagnetic property value corresponding to the material name and the property item stored by the fourth arrangement based on the received material name and the property item, and
  - iv. a seventh arrangement configured to transmit the material property data extracted by the sixth arrangement to the user-side computing arrangement, and
- wherein the user-side computing arrangement further comprises:
- i. an eighth arrangement configured to receive the material property data transmitted from the seventh arrangement of the server-side computing arrangement, and

Bergeron teaches:

- ii. a second arrangement configured to store addresses of the server-side computing arrangement corresponded to the material name and the property item, and ("Server combobox 43 displays the available active servers in a scrollable list" Bergeron column 6 line 3)
- iii. a third arrangement configured to transmit the material name and the property item to the server-side computing arrangement having the address

corresponded to the material name and the property item inputted from the first arrangement, ("the selected database is searched" Bergeron column 8 line 27) wherein the server-side computing arrangement comprises:

- ii. a fifth arrangement configured to receive the material name and the property item transmitted from the third arrangement of the user-side computing arrangement, ("the selected database is searched" Bergeron column 8 line 27)
  - iii. a sixth arrangement configured to extract the one or more types of (a) the material property data from the mechanical property value, (b) the thermal physical property value, or (c) the electromagnetic property value corresponding to the material name and the property item stored by the fourth arrangement based on the received material name and the property item, and ("data palette 1 is used to display information content of the rows of a result set" Bergeron column 9 line 10)
  - iv. a seventh arrangement configured to transmit the material property data extracted by the sixth arrangement to the user-side computing arrangement, and ("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)
- wherein the user-side computing arrangement further comprises:
- i. an eighth arrangement configured to receive the material property data transmitted from the seventh arrangement of the server-side computing arrangement, and ("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

A person of ordinary skill in the art at the time of invention would have modified the system of Rassaian with the multiple database connections of Bergeron by allowing the user of the system of Rassaian to select external databases for model input.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to perform this modification in order to find models external to the users terminal.

With respect to claim 20, Rassaian teaches: A system for receiving a provision of numerical analysis data from a server-side computing arrangement connected to a network to perform a numerical analysis regarding a working member and a forming member created using a predetermined material, comprising:

a first arrangement configured to input a material name and a property item;  
("depicts an example of a user interface that illustrates the type of parts and the package styles for the parts" Rassaian column 11 line 3)

a fourth arrangement configured to perform a numerical analysis using the material property data such that the user is unconcerned regarding substances of the material property data. ("The environmental load(s) may be applied to the finite element model of the component by finite element analysis" Rassaian column 12 line 16)

Rassaian does not teach:

a second arrangement configured to store addresses of the server-side computing arrangement corresponded to the material name and the property item;

a third arrangement configured to transmit the material name and the property item to the server-side computing arrangement having at least one of the addresses



corresponded to the material name and the property item inputted from the first arrangement,

a third arrangement configured to receive the material property data extracted from a material property data storage arrangement based on the material name and the property item and transmitted at the server-side computing arrangement; and

Bergeron teaches:

a second arrangement configured to store addresses of the server-side computing arrangement corresponded to the material name and the property item; ("Server combobox 43 displays the available active servers in a scrollable list" Bergeron column 6 line 3)

a third arrangement configured to transmit the material name and the property item to the server-side computing arrangement having at least one of the addresses corresponded to the material name and the property item inputted from the first arrangement, ("the selected database is searched" Bergeron column 8 line 27)

a third arrangement configured to receive the material property data extracted from a material property data storage arrangement based on the material name and the property item and transmitted at the server-side computing arrangement; and ("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

A person of ordinary skill in the art at the time of invention would have modified the system of Rassaian with the multiple database connections of Bergeron by allowing the user of the system of Rassaian to select external databases for model input.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to perform this modification in order to find models external to the users terminal.

With respect to claim 21, Rassaian teaches: A method for providing numerical analysis data by a server-side computing arrangement to a user-side computing arrangement which is connected to a network to perform a numerical analysis regarding a working member and a forming member created using a predetermined material, comprising:

extracting one or more types of material property data from (a) a mechanical property value, (a) a thermal physical property value, or (c) an electromagnetic property value corresponding to the material name and the property item stored by a material property data storage arrangement in which the material name and the property item are stored which correspond to one or more types of the material property data from (a) the mechanical property value, (b) the thermal physical value, or (c) the electromagnetic property value for a number of materials based on the received material name and the property item; ("parts and package style from a parts database 36" Rassaian column 11 line 1; also "thermal environment parameter" Rassaian column 11 line 35)

Rassaian does not teach:

transmitting a material name and a property item to the server-side computing arrangement having an address corresponded to the material name and the property item inputted from an input arrangement at the user-side computing arrangement,

receiving the material name and the property item transmitted from the user-side computing arrangement;

transmitting the extracted material property data to the user-side computing arrangement so as to be available to a numerical invisible to a user at the server-side computing arrangement; and

receiving, at the user-side computing arrangement, the material property data transmitted from the server-side computing arrangement.

Bergeron teaches:

transmitting a material name and a property item to the server-side computing arrangement having an address corresponded to the material name and the property item inputted from an input arrangement at the user-side computing arrangement, ("the selected database is searched" Bergeron column 8 line 27)

receiving the material name and the property item transmitted from the user-side computing arrangement; ("the selected database is searched" Bergeron column 8 line 27)

transmitting the extracted material property data to the user-side computing arrangement so as to be available to a numerical invisible to a user at the server-side computing arrangement; and ("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

receiving, at the user-side computing arrangement, the material property data transmitted from the server-side computing arrangement. ("enables the information

content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

A person of ordinary skill in the art at the time of invention would have modified the system of Rassaian with the multiple database connections of Bergeron by allowing the user of the system of Rassaian to select external databases for model input.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to perform this modification in order to find models external to the users terminal.

Claims 18, 19, are rejected under 35 U.S.C. 103(a) as being unpatentable over Rassaian, in view of Bergeron, in further view of England et al. (US 6,330,670).

Regarding claim 18, Rassaian in view of Conrad does not teach: wherein the server-side computing arrangement further comprises a tenth arrangement configured to avail the material property data to the ninth arrangement and precluding the user from having access thereto when the material property data extracted by the sixth arrangement is transmitted to the user-side computing arrangement.

England teaches: a system to prevent user access, "a digital rights management operating system protects rights-managed data, such as downloaded content, from access by untrusted programs while the data is loaded into memory" (England column 4 line 1)

A Person of ordinary skill in the art at the time of invention would have modified the combination of Rassaian in view of Bergeron with England by enforcing content protection policies on files downloaded from a server.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to modify the combination in order to protect the rights of a content provider.

With respect to claim 19, Rassaian teaches: A system for providing numerical analysis data to a user-side computing arrangement connected to a network to perform a numerical analysis regarding a working member and a forming member created using a predetermined material, comprising:

a first arrangement configured to store a material name and a property item which corresponding to one or more types of (a) material property data from a mechanical property value, (b) a thermal physical property value, or (c) an electromagnetic property value provided for a number of materials; ("parts and package style from a parts database 36" Rassaian column 11 line 1; also "thermal environment parameter" Rassaian column 11 line 35)

a fifth arrangement configured to avail the material property data a numerical analysis arrangement provided in the user-side computing arrangement and ("The environmental load(s) may be applied to the finite element model of the component by finite element analysis" Rassaian column 12 line 16)

Rassaian does not teach:

a second arrangement configured to receive the material name and the property item transmitted from the user-side computing arrangement;

a third arrangement configured to extract the one or more types of (a) the material property data from the mechanical property value, (b) the thermal physical

property value, and (c) the electromagnetic property value corresponding to the material name and the property item stored by the first arrangement based on the received material name and the property item;

a fourth arrangement configured to transmit the material property data extracted by the third arrangement to the user-side computing arrangement; and

unavailable to a user when the material property data extracted by the third arrangement is transmitted to the user-side computing arrangement.

Bergeron teaches:

a second arrangement configured to receive the material name and the property item transmitted from the user-side computing arrangement; ("the selected database is searched" Bergeron column 8 line 27)

a third arrangement configured to extract the one or more types of (a) the material property data from the mechanical property value, (b) the thermal physical property value, and (c) the electromagnetic property value corresponding to the material name and the property item stored by the first arrangement based on the received material name and the property item; ("data palette 1 is used to display information content of the rows of a result set" Bergeron column 9 line 10)

a fourth arrangement configured to transmit the material property data extracted by the third arrangement to the user-side computing arrangement; and ("enables the information content of the selected database to be accessed from a user application." Bergeron column 9 line 35)

A person of ordinary skill in the art at the time of invention would have modified the system of Rassaian with the multiple database connections of Bergeron by allowing the user of the system of Rassaian to select external databases for model input.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to perform this modification in order to find models external to the users terminal.

Further, the combination of Rassaian in view of Bergeron does not illustrate unavailing the user of the material property data.

England teaches: a system to prevent user access, "a digital rights management operating system protects rights-managed data, such as downloaded content, from access by untrusted programs while the data is loaded into memory" (England column 4 line 1)

A Person of ordinary skill in the art at the time of invention would have modified the combination of Rassaian in view of Bergeron with England by enforcing content protection policies on files downloaded from a server.

It would have been obvious at the time the invention was made to a person of ordinary skill in the art to modify the combination in order to protect the rights of a content provider.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kirsch et al. (US 6,018,733) discloses a database search.

Conrad et al. (US 2005/0010605) discloses a database search.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Chao whose telephone number is (571)270-5657. The examiner can normally be reached on 8-4 Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on (571)272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. C./  
Examiner, Art Unit 2442

/Andrew Caldwell/  
Supervisory Patent Examiner, Art  
Unit 2442